NATIONAL ASSOCIATION OF EDUCATIONAL BROADCASTERS

(Surveys & Studies)

"A SURVEY OF EDUCATIONAL RADIO STATIONS"

by

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Under the supervision of
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Additional copies of the study are available to N-A-E-B members at 25¢ per copy and to non-members at $1.00 per copy. Address ------
National Association of Educational Broadcasters, Station WOI, Ames, Iowa.

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SUMMARY

In 1947, George Willeford, graduate student in the radio department of the University of Indiana, studied the operations of 18 of the educational radio broadcasting stations in the United States, seeking data on staff qualifications and salaries, facilities, operation budgets, administrative procedures, and other data, for distribution by the National Association of Educational Broadcasters.*

Eighteen stations in all were studied. Twelve were AM stations owned by colleges or universities, ranging in power from 100 to 5000 watts, and with two exceptions operating on daylight frequencies only, some with limited time or "specified hours" of operation. Six were FM stations, four of which were operated by boards of education in large cities, and two by universities, using power ranging from 250 watts to 18,000 watts.

With an average operating time of 8 hours, stations reported average operation on current expense cost at $20,000 with salary budgets averaging $38,000. One station spent $57,000 on operations, and another listed salary budget at $100,000.

The eighteen stations reported $5,580 as the average salary for manager. Range was as low as $3600 and as high as $10,000. Program directors pay ranged from a low of $2800 to a high of $7,000 with average figure of $3,700. Chief engineers' pay ranged from a low of $3,000 to a high of $4,800.

Thirteen of the stations offered to some degree "extremely specialized" programs, and the majority devoted considerable time to semi-classical and classical music with music in the program day constituting from 36% to 60% of the material offered.

Engineering equipment in general was modern, and studios were either new or recently reconverted. Average number of studios per station was between 3 and 4. All but 1 station indicated regular use of wire and/or tape-recorders.

Fifteen of the 18 stations expressed interest in some sort of a national educational network. Doubt, however, was expressed as to its practicality.

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*In May, 1948 the U.S. Office of Education listed 65 educationally owned and operated radio stations in the U.S.

The N-A-E-B warns that these survey results are not intended to present a necessarily desirable or approved set of standards for educational station operation, nor to lead prospective educational broadcasters to believe that the "average" salary and operations figures listed will be an adequate basis for planning a new operation.

The study of the 18 stations gives a "cross-section" of several different types of educational station operation (college, university, board of education) out of the 65 educationally owned outlets in the U.S.

-- Richard B. Hull
N-A-E-B President

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Stations Reporting*

1. KOAC - Oregon State College, Corvallis, Oregon
2. KWLC - Luther College, Decorah, Iowa
3. KWSC - State College of Washington, Pullman, Washington
4. WBAA - Purdue University, LaFayette, Indiana
5. WBEZ-FM - Chicago Radio Council, Chicago, Illinois
6. WBGO-FM - Newark Public Schools
7. WBKY-FM - University of Kentucky, Lexington, Kentucky
8. WDTR-FM - Detroit Public Schools - new
9. WHA - University of Wisconsin, Madison, Wisconsin
10. WHCU - Cornell University, Ithaca, New York
11. WILL - University of Illinois, Urbana, Illinois
12. WKAR - Michigan State College, East Lansing, Michigan
13. WNAD --University of Oklahoma, Norman, Oklahoma
14. WNYE-FM - New York Public Schools
15. WOI - Iowa State College, Ames, Iowa
16. WSAJ - Grove City College, Grove City, Pennsylvania
17. WSUI - State University of Iowa, Iowa City, Iowa
18. WUOM-FM - University of Michigan, Ann Arbor, Michigan

*To prevent the betrayal of any confidences, code letters are used and each station manager is informed which code letter, for each table, refers to his own institution's station.

I. QUALIFICATIONS AND SALARIES OF STATION STAFFS

A. Full Time

TITLE & NO. REPORTED	TRAINING (DEGREES) (WHEN GIVEN)	EXPERIENCE (In Years)			SALARY		
		MAX.	MIN.	AVG.*	MAX.	MIN.	AVG.*
Station Dir. or Mgr. and 1 ass't.Dir. (17)	8 - a.B. 2 - B.S. 4 - M.a.	24	6	13.3	$10,000	$3,600	$5,580
Program Director (14)	8 - a.B. 2 - B.S. 3 - M.A.	12	3	6.1	$ 7,000	$2,850	$3,731
Farm Director (2)	2 - B.S.	5	2	3	$ 4,400	$3,900	$4,150
Chief Engineer (15)	6 - B.S. 3 - a.B. 2-M.a.2-M.S.	25	2	10.6	$ 4,800	$3,000	$3,845
Other Engineers (avg. 2) (21)	6 - B.S.	12	2	5.4	$ 3,500	$1,980	$2,593
Steno. Typist (27)	5 - B.S. or Bus.Sch.	20	1	4	$ 3,000	$ 900	$1,721
School Prgm. Dir. (6)	1 - Ph.M. 1 - B.S. 1 - M.S.	20	3	9	$ 4,300	$3,000	$3,619
Traffic Mgr. (4)					$ 2,928	$1,320	$2,042
Music Director (10)	2-a.B.1-B.S. 2-B.M.1-a.M. 1-M.S. 1-D	20	1	6	$ 4,800	$2,000	$3,037
Ass't. Dir. Music (3)					$ 2,400	$1,704	$1,968
Continuity Heads and Script Writers (avg.$2\frac{1}{2}$) (18)	4 - a.B. 4 - B.S. 1 - M.S. 2 - M.a.	18	1	5	$ 3,600	$1,700	$2,425
Chief anncr. (8)	1 - a.B.	8	2	4.4	$ 4,300	$1,800	$2,593
Other anncr. (6)	1 - a.B. 1 - B.S.	4	1	3	$ 2,600	$1,320	$1,944
News Editor (5)	3 - a.B. 1-B.S.1-M.a.	5	2	5	$ 3,500	$1,800	$2,704
Women's Director (4)	1 - a.B. 2 - B.S. 1 - M.S.	16	10	13	$ 3,700	$2,200	$3,025
Recording Engineer (2)	1 - B.S.	4	2	3	$ 3,000	$3,000	$3,000
Public Relations (2)					$ 3,300	$1,800	$2,550

TITLE	TRAINING	EXPERIENCE			SALARY		
		MAX.	MIN.	AVG.*	MAX.	MIN.	AVG.*
Production/ Producer (11)	4 - B.A. 1 - M.A.	6	1	3.5	$3,900	$2,000	$2,953
Librarian (3)					$1,704	$1,260	$1,004
Consultant (2)	2 - A.B. 2 - A.M.	10	8	9	$3,600	$3,600	$3,600

B. Part Time or Student

TITLE & NO. REPORTED	TRAINING (WHEN GIVEN)	EXPERIENCE (In Years)			SALARY		
		MAX.	MIN.	AVG.*	MAX.	MIN.	AVG.*
Anncrs. (37)	Informal	3	1	1.4	$2,088	50¢hr.	about 70¢hr.
Music Librarian (5)	Some College	3			$120 mo.	45¢hr.	$75 per month
Steno. Typist (14)		20	6		$1,500	35¢hr.	Impossible to find
Engineers (avg. 3) (31)	College work	6	1	2.5	$1,664	60¢hr.	about 70¢hr.
Production Ass'ts. (2)					$ 900	$ 360	$ 630
Script Writers (2)					$ 900	$ 600	$ 750
Continuity Writers (3)					$ 960	$ 500	$ 730

Other positions such as story lady, sports technician, and out of school children's programs appear only once and are not listed separately.

*In some cases only a single figure is represented so no averages can be obtained.

II. STUDENT-FACULTY USES, UNION RELATIONS, TRANSCRIPTION FACILITIES

(Station codes same for tables II, III, and IV,
i.e. Station A on II is also Station A on III and IV.)

STA-TION	STUDENTS PAID		OTHER PARTICIPANS PAID OR RELIEVED OF OTHER DUTIES		RELATION-SHIP WITH LABOR UNIONS	SUSTAINING MUSICIANS EMPLOYED
	HOURLY	SALARY	STUDENTS	FACULTY		
A.	Neither		Semester Credit	Some time off	AFM clearance	No
B.	Neither		Credit	No	AFRA & AFM approval	No
C.	Neither		Credit	Relieved of work	None	No
D.	X			Some relief from work	Satis-factory	No
E.	No students		No	No	None	No
F.	X		No	No	None	No
G.	X		No	No	Cooperate with AFM	Yes
H.	X		See "Sustaining Musicians Employed"	Roundtable members	None	Yes.16 on scholar-ships
I.	X		Some qualified in education	No	Good. No contracts	No
J.	Special X	X		No	None	No
K.	X		No		None	No
L.	X		Without pay except prgming. & engineers	No	None	No
M.	X		No	None recorded for reference for pay raise	None	No
N.	X		No	No. Unless load relieved by department	Good	No
O.	X	X	No	No	O.K.	No
P.	X		No	No	None	No
Q.	X	X	Regulars hourly	No	None	No
R.	X	X	No	Rarely. One professor has	Cordial. Cooperate with AFM	Yes

III. STUDIO CONDITIONS AND FACILITIES

STA-TION	BUILDING NEW OR RECONVERTED	FLOORS	AIR CONDI-TIONED	TELE-VISION	SOUND PROOFED FOR FM	HOW LIGHTED? INCANDESCENT FLUORESCENT
A.	Shared	4 scattered. Rather have one	No	No	No	Both
B.	New floor on top old bldg.	1	No	No	Yes	Incandescent
C.	Reconverted	1	Yes	No	Yes	Both. Studio fluorescent
D.	New	5	Yes	No	Yes	Incandescent
E.	Reconverted	1	No	Yes	Reason-ably	Incandescent
F.	Reconverted	1	No	No	No	Fluorescent
G.	New	1	No	Yes	Yes	Fluorescent
H.	Reconverted	1	Partly	No	Yes	Both
I.	New - 1941	1	Yes	No	Yes	Incandescent
J.	Reconverted	Half of 1	Yes	No	Fair	Both
K.	New - 1939	2	No	No	Yes	Incandescent
L.	Reconverted	1	No	No	No	Both
M.	Reconverted	Tower of building	No	No	No	Both
N.	Reconverted	1	Yes	No	No	Indandescent
O.	Shared	Part of 1	Yes	Yes	No	Both
P.	Reconverted	1	No	No	No	Fluorescent
Q.	Under con-struction	1 floor complete	Yes	No	Yes	Fluorescent
R.	Reconverted	3	Partly	No	Yes	Both

IV. NEWS, TRANSCRIPTION AND RECORD SERVICES, BROADCASTING FROM CLASSROOMS OR FOR CREDIT, AND DAILY OPERATING TIME

STATION	NEWS TICKERS	ET SERVICE	RECORD SERVICE	ANY BROADCASTING DONE FROM CLASSROOM	ANY BROADCASTING OFFERED VIA RADIO FOR CREDIT	DAILY OPERATING TIME
A.	No	No	No	No	No	6 hrs.
B.	No	No	Yes	Yes	No	4½ hrs.
C.	No	Yes	No	No	No	5 hrs.
D.	1	Yes	No	Yes	No	14 hrs.
E.	1	Yes	Yes	No	No	6 hrs.
F.	No	No	No	No	No	4 hrs.
G.	1	Yes	Yes	No	No	14 hrs.
H.	1	No	Yes	No	No	2 hrs.
I.	1	Yes	Yes	No	No	13 hrs.
J.	1	Yes	Yes	No	No	16½ hrs.
K.	1	Yes	Yes	No	No	12 hrs.
L.	No	No	No	No	No	*See Below
M.	1	Yes	Yes	No	No	Not given
N.	1	Yes	Yes	Yes	No	12 hrs.
O.	3	Yes	Yes	No	Yes	12 hrs.
P.	1	No	Yes	No	No	12 hrs.
Q.	0 future 1	Yes	No	Yes	No	6 hrs.
R.	1	Yes	Yes	Yes	No	9 hrs.
TOTAL	6-No 10-1 1-3	6-No 11-Yes	7-No 10-Yes	13-No 4-Yes	13-No 4-Yes	Average 8 hours

*Tues.-7:15-8:45 p.m.
Thurs.-7:15-8:45 p.m.
Sun.- 4:30-5:30 p.m.

V. OFFICE FACILITIES

(Code of station identification changed)

STATION	FULL SIZED FILES	TYPEWRITERS				DUPLICATORS	MIMEOGRAPH	ADDRESSOGRAPH
		LARGE TYPE	PICA	WIDE CARRIAGE	OTHER			
A.	3	0	7	2	8 elite	0	1	1
B.	1	0	2	0	0	Central office		
C.	12	13	3	2	Verityper	1	Central office	
D.	11	8	3	0	0	1	0	0
E.	5	0	4	1	0	0	1	0
F.	4 "live"	2	18	1	5 elite	1	Use Univ. service	1
G.	2	0	0	0	0	0	0	0
H.	3	0	14	0	0	1	1	access to professional machine
I.	10	0	11	0	0	0	1 ditto	Handled by Univ. mailing center
J.	25	6	2	1	1 caps, newsroom	all service handled by College printing department		
K.	Special storage cabinets	5	5	1	0	1	college clerical used	1
L.	7	0	3	0	1 elite	1	1	Central office
M.	5	1	6	0	0	0	3 One elect. operated	1
N.	10	0	4	4	0	0	0	0
O.	8	0	3	1	0	1	Univ. printing	1
P.	6	-	6	3	4 elite	1	-	1 Elliott
Q.	14	6	2	2	2 elite	1	1 multilith	
R.	10	0	7	0	0	1	Central Office	
Max.	25	13	14	4				
Min.	1	0	0	0				
Avg.	7.5	2.25	5	.7				

VI. BUDGETS, ADMINISTRATIVE SET-UPS, AND STAFF RESPONSIBILITIES

(Code for tables VI and VII same)

STATION	ANNUAL MAINTENANCE BUDGET	IS PUBLICATION, SHIPPING, BILLING HANDLED BY STATION OR CENTRAL OFFICE	ADMINISTRATIVE ORGANIZATION OF STATION	TO WHAT EXTENT OTHER DEPARTMENTS FIT INTO STATION OPERATIONS	ANY OVERLAPPING APPOINTMENTS
A.	$13,500 oper.& sup.only	Bulletin Off. and agri. Ext. Office	Director respon. to Ext. Dean & Pres.	Integrated thru Ext. Division Good cooperation	English, Speech & Journ.
B.	$12,500 excl.programs	Central Office	Pgm. - Gen. Ext. Div. Op. - Sch. Elect. Eng.	Cooperation excellent	Agri.Dir. joint budg.Fed. Coop. Ext.
C.	$14,206	University Off.	Public Rel.	Cooperation very good	None
D.	$36,850	Pub.by station Billing by Acc't.	Radio Dept. respon. to President	Excellent coop. with depts.and administration	None
E.	$42,000	Central Office	An ind. unit respon. to Pres'. Office	Good	Radio Journ Radio-Speech
F.	$34,000	Central Office	Estab. dept. report to President	Cooperation 100%	Yes
G.	$57,000	Station	Dir. respons. to faculty comm. app't. by President	Overlapping appointments of personnel	Music-Radio. Journ.-Radio
H.	$ 5,200	Station	Radio Studio under Dean of University	Cooperation with other depts. as requested	None
I.	$ 3,000	Central Office	Coord.respon. to Supt. of high school	Works with Off. of Supt. of Schools	Yes (three)
J.	Not quoted	Board of Education Mailing Dept.	Mgr. respons. to Supt.	Excellent	None
K.	$41,000	By the station	Dir. respons. to Board of Education	Works closely with school committees	None
L.	$15,000	Central Office	Respons. to Senate Bd. of Radio	Very helpful in some instances	Yes
M.	$ 3,320	Central Office	Dept. with sch. system	Station is service. Other depts. use facilities	None
N.	--	--	Sep.dept.Dir. respons. to President	--	--
O.	$ 8,450	By the Station	Sep.dept.Mgr. respons. to President	Various depts. contribute regularly	None
P.	$14,000	By the station	Dir. respons. to President	Excellent	None

VI. Budgets, Administrative Set-ups, and Staff Responsibilities (cont.)

STATION	ANNUAL MAINTENANCE BUDGET	IS PUBLICATION, SHIPPING, BILLING HANDLGED BY STATION OR CENTRAL OFFICE	ADMINISTRATIVE ORGANIZATION OF STATION	TO WHAT EXTENT OTHER DEPARTMENTS FIT INTO STATION OPERATIONS	ANY OVERLAPPING APPOINTMENTS
Q.	Not given	Central Office	Operated by comm. app't. by President	All depts. supply programs during year	None
R.	$14,400	Pub.by station Billing - Bus. Office	Estab. dept. respons. to President	Support of Administration	Yes
Avg.	$20,933				

VII. FACILITIES (Channels, Turntables, News Machines, Switchboards)

STATION	HOW LARGE SWITCHBOARD	NUMBER OF CHANNELS AVAILABLE FOR SIMULTANEOUS USE	NUMBER OF TURNTABLES AVAILABLE FOR SIMULTANEOUS USE	NEWS TICKERS		
				NUMBER	SERVICE	SHARED?
A.	3 lines with 6 extensions	-	-	3	AP, UP, USDA	Exclusive
B.	2 pr. lines 9 phone conn.	17	13	1	UP	Exclusive
C.	4 phones	20	6	None		
D.	3 channels	-	10	1	AP	Exclusive
E.	2 lines, 8 extensions	7	6	1	UP	Exclusive
F.	3 lines 6 extensions	4	6 + 2 port. playback	1	UP	Exclusive
G.	4 trunk lines 17 extensions	24	6	1	UP	Exclusive
H.	--	7	7	1	UP	Shared w/ Journ.
I.	4 phones 1 Intercomm.	6	9	None		
J.	3 outside lines	26	7	None		
K.	2 outside lines Intercomm.	4	4	None		
L.	5 phones	5	8	1	AP	Exclusive
M.	3 trunk lines thru central PBX. 1 private	12	3	1	AP	Exclusive
N.	--	2	2	None		
O.	10 outside lines 25 inside lines	4	4	1	UP	Shared w/ Agric.
P.	4 phones	-	4	1	AP	Exclusive
Q.	1 phone	2	3	None		
R.	3 trunk lines	-	-	1	AP	Exclusive
Avg.		13	5.8			

VIII. CONTROL ROOM FACILITIES I
(Code same for tables VIII and IX)

STA-TION	CHANNELS	TURNTABLES	ET EQUIPMENT
A.	7 one spot 7 another	4 2	Pierce Wire; RCA Wire Brush tape; Disc recorders
B.	12	2	2 GE recorders; 2 Brush tape 1 Soundscriber; 2 recording turn-tables (Presto Disc)
C.	4 channels to each of four studios (16)	5 RCA 2 Gates	2 Presto disc; 2 Radiotone disc; 2 Wire; 1 Tape
D.	26 pairs of lines to control 4 mike channels	2 RCA	1 Wire recorder 2 Presto disc
E.	6	2 RCA	3 Presto 6N; 2 Universal 2 Tape recorders
F.	5	3	None listed
G.	5	2 in master 2 in "B", 3 Portable or floating Control room	2 Fairchild disc 1 Brush tape
H.	4	6	Brush tape (2) Presto transcription
I.	7	2 Presto, 2 Reckocut 2 Fairchild	3 Tape recorders, 1 reckocut 1 Homemade recorder
J.	4 RCA consoles 6 channels each	8	RCA type 73-A; Other RCA and Presto equipment. Brush tape
K.	20	6 RCA	2 Presto 75B 1 Presto Model A
L.	4 mike; 6 remote; 2 ET	3	Disc; Wire
M.	5 studios 4 control rooms	7	Wire; Tape; Presto disc
N.	2	2	Tape
O.	16	5	3 Wire; 1 Tape 2 RCA; 1 Other disc
P.	6	2	Best Scully. (complete)
Q.	Off campus -- 3 On campus --- 3	2 2 (78 only)	2 Fairchild 5396 1 Presto GD recordor with 85 A amplifier; Tape
R.	1	2 RCA 72A	1 RCA disc; Wire
Max.	24	8	
Min.	1	2	
Avg.	9.5	4	

IX. CONTROL ROOM FACILITIES II

STA-TION	NUMBER AND LOCATION OF CONTROL CONSOLES	REMOTE EQUIPMENT	TALKBACK EQUIPMENT OR MONITORING SYSTEM
A.	2 in one location 1 in another	4 complete set-ups	On each control console plus audition
B.	1 in main control room	3	2
C.	1 for studio "A" 1 for "B" 1 for "C" & "D" (3 in all)	2 4-channel amplifiers 1 2-channel, 6 1-channel 1 mobile transmitter hi-frequency	On all studios; monitoring in all offices
D.	1 RCA	RCA OP6 &OP7, RCA OP6 Gates 4 channel	Yes
E.	1 Studio "A" 1 Master 1 Studio "D"	2 W.E. Cardiod 639A Mics, 1 RCA BX; 6 RCA dynamics; 2 RCA inductors; 2500 ft. mike cable; 15 mi. pgm. line (laid thru heating tunnels to campus bldgs): 600 ft. A.C. cable; 3 RCA fld. amp.; 1 RCA OP6; 1 RCA OP7; 1 remote relay tsmitr. 2.7 Mc.; 1 Ford truck w/ 2 gasoline gens.	2 building monitors in addition
F.	2 in control rooms off studios	1 unit	1 general system used for feed back to all
G.	1 each in control rooms A,B,C, the Union Ballroom & Memorial Union	1 3-mike Remler 3 1-mike stage conditioners	Have talkback equipment for each of three studios with aerodynamic mikes
H.	1 middle of 3 studios	2 three channel 6 one channel	Built in talkback to studio and return. Monitor receiver used to air
I.	2 both for same studio	3 boxes, 3 channels each; 3 tape recorders	Talkback for studio; Monitors in each office
J.	3 in main control 1 upstairs in another studio	Own lines to 39 points on campus. Several amplifiers	Extensive
K.	6	2 Collins (12Z) 1 Remler	Yes
L.	3 in control rooms A, B, and C	Complete	Complete
M.	4	10 units	Fully equipped
N.	2,each in separate room commanding view of each other & 2 studios	None	2 talkbacks -- one for each control room
O.	1, WE 23-C for (b) 1 B(2). 1,REL for A&C also used for master control	Gen. Elect. #FA-14-A REL remote amplifier	Consoles are used for talkback, Bell talkback amplifier, too.
P.	3	None	Yes

IX. Control Room Facilities II (continued)

STA-TION	NUMBER AND LOCATION OF CONTROL CONSOLES	REMOTE EQUIPMENT	TALKBACK EQUIPMENT OR MONITORING SYSTEM
Q.	1 in one location 1 in another	2 complete 3- channel equipments	Separate talkback amplifier and mike in control room
R.	1 in transmitter room with view into studios	2 RCA 62A	RCA-94C amplifier with RCA speakers

X. ANTENNAE AND TRANSMITTERS
(Code same for tables X and XI)

STATION	ANTENNA		TRANSMITTER		
	TYPE AND MANUFACTURER	NUMBER AND TYPE BAYS	TYPE AND MANUFACTURER	POWER	COMMENTS
A.	Cage-T-type	93' high no tower	Composite	100 watts	
B.	FM antenna will be GE	4 bays for FM	Composite	1000 watts	New transmitter is being bought
C.	Towers are antenna. (AM) Truscon	1 FM	RCA 5D AM Raytheon 250 RF FM	5KW -- AM 250w -- FM	
D.	FM and TV antenna not yet selected	TV & FM to be on top of 520' tower	RCA 5 KW, (AM) air-cooled 5 DX (FM&TV not selected	AM power 5000 watts	FM KW (CP) TV (4 KW Visual (CP) 3 KW Aural
E.	Lehigh twin towers. Shunt excited		Western Electric	5000 watts	
F.	Windcharger	8	General Electric	10KW temp. 50KW ordered	
*G.	FM General Electric Type BY-4-C	4	AM-WE type 405-B-1 FM-WE type 8 bay	5000 watts 3000 watts 18KW radiated	Dogherty system air-cooled tubes
H.			Composite	5000 watts	Buying WE 10 KW
I.	"T"	None	Composite	5 KW	Custom built by station engineers
J.			Collins 21 A	5 KW	
K.	Tower "A" Coaxial Motorola Tower "B" Turnstile	1 4	Trans. "A" FM Trans. "B" FM Both are composite	500 watts 1000 watts	Custom made by studio engineers
L.	RCA Pylon	2	RCA BF 10B FM	10,000 watts	
M.	Windcharger turnstile	4	Radio Eng. Laboratories Co. FM	1000 watts	
N.	Wind turbine	4	Radio Eng. Laboratories Co. FM	1000 watts	
O.	AM-Directional 3 element FM-RCA	4 section Pylon Power gain 6	AM-RCA 5D FM-Collins 733-A	5KW. 3KW trans. 16.5 KW radiated power	
P.	Windcharger	8	Now - GE Later - Radio Eng. Lab.	Now - 1 KW Later - 3KW	Effective radiation app. 15,000 watts
Q.	Windcharger		RCA-250-E	250 watts	
R.	Western Electric	8 cloverleaf	AM-GE RT 13B	1000 watts	

*FM antenna mounted on top of AM tower for simultaneous use.

XI. TOWERS

STATION	LOCATION	HT.	TYPE	HOW CONSTRUCTED
A.	None			
B.	Edge of campus (New tower will be 405')	305	Blaw-Knox self-supporting	Contractor
C.	1¼ mile south of stadium	328	Two Truscon steel	Contractor. Truscon self-supporting. Directive array.
D.	AM tower 1000 ft. from transmitter studios TV&FM tower 3-1/4 miles from studio	400	Truscon self-supporting. Shunt-fed ¼ wave nondirectional	Plan by university engineers. Put up by contractor.
E.		325	Self-supporting	Contractor
F.	14 miles distant	440	Wincharger	Contractor
G.	On campus within 200 yards of studios	300	Blaw-Knox steel tower Self-supporting Shunt-fed.	Contractor (Same tower for FM and AM)
H.	1¼ miles distant	224	Shunt-fed ¼ wave	Contractor and own engineers.
I.	2½ miles from station on outskirts of city	200	2 Self-supporting	Bought already constructed from defunct station
J.	6 miles SW of campus	254	3 Blaw-Knox self-supporting	Contractor
K.	Tower A on top of bldg. Tower B on side of building	103 148	Pipe Blaw-Knox tapered	University engs. Standard tower with pipe top. Own engs.
L.	Roof of 8 floor bldg.	304	Unguyed Lehigh	Contractor
M.	Top of studio	102	Welded rod. International Derrick Company	Contractor
N.	Top of high school	220	Triangular	Contractor
O.	AM 2 mi. west of town. FM at studios.	255 200	3 self-supporting steel. 1 self-supporting steel.	Contractor Contractor
P.		604	GE "do nut" (Later will be 8 bay Wincharger.)	Contractor
Q.	600 ft. from trans.	205	Wincharger constant triangular. Section guyed.	University engineers and contractor
R.	6 miles from studios	365	CFH, non-insulated self-supporting steel Blaw-Knox tower with 8-bay cloverleaf Western Ele. antenna	Contractor
		AVG. ht. 271		13 built by contractor 2 built by both 1 built by university

XII. TOTAL AND AVERAGE SALARY, SPACE AND FACILITIES SUMMARY
(Code of station identification changed)

STATION	NO. STUDIOS	TOTAL SPACE (SQ. FT.)	NO. CHANNELS	NO. MIKES	SALARY BUDGET
A.	3	660	6	6?	Not given
B.	2	Not given	5	7	$30,720
C.	4	504	22	16	$45,870
D.	5	1,450	14	16	$51,590
E.	5	1,984	9	10	$42,290?
F.	2	4,000	20	24	$37,370
G.	5	1,233	28	12	$35,830 + part-time
H.	(1 (1 on way)	414	7	10	$16,400 + anncrs.,engs. and other part-time
I.	3	1,775	13	10	$24,340 + anncrs., engs. and other part-time
J.	5	?	17	21	$10,764
K.	4	2,125	17	12	$40,000
L.	1	952	6	15	Not given
M.	2	190	6	3	$4,600 + part-time
N.	3	1,525	12	12?	$49,400
O.	5	4,338	18?	18	Not given
P.	2	1,374	4	4	$39,000
Q.	4	2,500	18	13	$100,000
R.	4	app. 13,000	24	22	$82,947
Avg.	3.2	2,236.5	13.2	11.4	$38,313 + extra shown

XIII. SCHOOL BROADCASTS

(Code same for tables XIII, XIV, and XV)

STATION	TO WHAT EXTENT ARE SCHEDULES COORDINATED WITH THOSE OF PUBLIC SCHOOLS IN THE STATE	GRADE LEVEL	WHAT BROADCAST TO THEM	LISTENING AUDIENCE IN SCHOOLS	TIME OF DAY
A.	Not at all	Rural	Adventures in Music	100,000 2,000 total live audience here	10:00 on Monday
B.	Not at all	--	-	--	--
C.	Complete School of the Air (15 pgms. weekly)	1-12	Complete program	100,000	Throughout the day
D.	--	--	--	--	--
E.	As closely as possible	1-12	Complete program	298,700 Weekly(1947)	9:00 to 3:00
F.	As closely as possible	Kindergarten, High Sch.	Complete schedule	Not yet known (Voluntary)	Various times
G.	Time of broadcast agrees with school schedules	All grades	--	50,000	Morning and afternoon
H.	Programs designed for school use	Various	--	Not known	--
I.	Broadcast throughout the day	All grades	--	300,000 weekly	--
J.	--	--	--	--	--
K.	One program only weekly	Elementary	This Week in Nature	--	Thursday morning
L.	Schedule arranged with State Dept. of Education	1-8	--	427,000 weekly	9:30 a.m. 1:30 p.m.
M.	--	--	--	--	--
N.	Not	--	--	--	--
O.	Not	--	--	--	--
P.	School audience: incidental program produced for adult audience & children out of school only				
Q.	Closely coordinated	1-12	Full program	113,000 weekly	11:00 a.m. 1:15 p.m. 2:30 p.m.
R.	To start school broadcasts in the fall of 1948	--	--	--	--

XIV. ADULT, SPECIALIZED AND EXCHANGE PROGRAMS

STATION	OUTSTANDING LIVE ADULT EDUCATION PROGRAMS	OUTSTANDING RECORDED ADULT EDUCATION PROGRAMS	OFFER ANY EXTREMELY SPECIALIZED PROGRAMS	EXCHANGE BROADCASTS LIVE OR ET WITH OTHER STATES, SYSTEMS
A.	Too many to enumerate	From Music Room, Columbia Masterworks, Hymns, etc.	Bookmobile for children 6-10 in coop.w/ St.Lib.	--
B.	Very many	12 daily over.	No	Feed Comm. stations; France, BBC
C.	Home Economics Agriculture Home Building	Army, Navy, BBC, Norway, France	Some for University students	France, BBC, etc. Wisconsin
D.	Roundtable	Excursions in Science, Folk Music	For. Language Brdcsts. Your University Vet.	French by transcription
E.	None at present	None at present	Planning pgm. for teachers. also parents.	None
F.	None. Planning adult program	--	Cooperate with local stations	Separate Organizations. France, etc.
G.	Talks to Parents, Consumer notes	None	--	--
H.	--	--	Some	Some special network broadcasts
I.	Ed. for Atomic Age, Adult Ed. Today, etc.	Great Books, Science, Drama, Music	One hour a day for veterans in hospitals	Yes
J.	--	--	No	ETs from Dept. of Education
K.	Invitation to Learning, Know Your Birds, etc.	--	Parent's Clinic	ETs from BBC
L.	Following Cong. Intro. Psych. Our Children	Latter two recorded for broadcast	Pre-school "Fun Time"	No
M.	--	--	Yes	None
N.	--	--	None	No
O.	Classroom, Farm Great Stories	Music of the Masters, Chamber Music	None	Script exchange
P.	Too numerous to list	--	Very few	Yes, other schools, other stations, NBC, ABC, BBC
Q.	Especially for Women, Music of Masters, etc.	Traffic Safety	High Time, Music of Czechoslovakia	--
R.	Medical Music	None	Campus Doorsteps	Yes

XV. SPECIAL EVENTS BROADCASTS, PROGRAM BALANCE AND INTEREST IN NATIONAL EDUCATIONAL NETWORK

STATION	SPECIAL EVENTS PROGRAMMING	BALANCE BETWEEN MUSIC, DRAMA, AND TALKS	INTERESTED IN NATIONAL EDUCATIONAL NETWORK
A.	Sessions of Legislature. Convos, etc.	55% Talk incl. news, drama. 45% Music	Depends upon objectives, programs, etc.
B.	Too many to list	Music 50%, Drama 20% Talks 30%	Depends
C.	Campus and Agricultural events of note	Music 60% Talks 40%	Yes
D.	Sports, commencement, and similar events	Music 60% Talks 40%	Yes
E.	One-shots to support Community drives, etc.	--	Yes
F.	--	--	Yes
G.	Plan to carry public programs done by schools	Music 40% Drama 35% Talks 25%	Yes
H.	--	--	Yes
I.	Whatever nets feed them	Heavy on drama. Music next, few talks	Yes
J.	Sports Church services	Major portion is music	--
K.	Sports and others	Music 40% Talks 45% Drama 15%	Yes
L.	Sports, Convos, Public lectures, Concerts, etc.	Music 42% Drama 7% Talks 51%	--
M.	Many where University is involved	Talks 60% Music 40%	Yes, but thought impractical
N.	Sports	Music 50% Drama 10% Talks 40%	Yes
O.	Sports, Convos, Campus guests, etc.	--	Yes
P.	Sports, Agriculture, Public Affairs	Music 36% - Pure Music Agric. 22% - Variety (with music) News 11% } = Talks 21% Women 12% } Religious 2% Drama 2% Varied 17%	Yes transcription and FM repeater
Q.	Sports, Convos.	--	Yes
R.	--	Music 33 1/3% Talks 33 1/3% Interviews and Drama 33 1/3%	Yes

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